

Patent Claims

1. An arrangement having a low-voltage power breaker (1) and a switching gas damper (12), which is provided with a bearing element (16), for the low-voltage power breaker,
- in which the switching gas damper is arranged above an arc-quenching chamber (2) of the low-voltage power breaker and has at least one inlet opening for switching gases and at least one outlet opening for damped or completely ionized switching gases, and
 - in which the bearing element (16) can be fixed on a housing (10) accommodating the low-voltage power breaker immediately adjacent to the arc-quenching chamber and forms at least one accommodating area for a flow element (30) which builds up a flow resistance for the switching gases,
 - the bearing element (16) forming the at least one inlet opening (24), characterized
 - in that the at least one accommodating area (28) can be closed by at least one closure element (32) which fixes the at least one flow element (30), and
 - in that the at least one closure element (32) forms the at least one outlet opening (36).
2. The switching gas damper as claimed in claim 1, characterized in that the switching gas damper (12) can be positioned in relation to the arc-quenching chamber by means of spacer elements (18) which can be selected.
3. The switching gas damper as claimed in one of the preceding claims, characterized in that the accommodating area for the flow element (30) is formed by a trough-like depression (28) in the bearing element (16).

4. The switching gas damper as claimed in claim 3, characterized in that a base of the trough-like depression (28), whilst forming an at least partially peripheral retaining web (26), at the same time forms
5 the inlet opening (24) for the switching gases into the switching gas damper (12).

5. The switching gas damper as claimed in one of the preceding claims, characterized in that the retaining
10 web (26) is formed on opposing narrow sides or long sides of the inlet openings (24).

6. The switching gas damper as claimed in one of the preceding claims, characterized in that the at least
15 one flow element (30) is formed by steel wire nets, perforated plates, mat elements or the like which are arranged in at least one layer.

7. The switching gas damper as claimed in one of the preceding claims, characterized in that the total
20 height of the flow elements (30) corresponds to the total height of the bearing element (16).

8. The switching gas damper as claimed in one of the preceding claims, characterized in that the bearing
25 element (16) forms a number, which corresponds to the number of switching poles of the low-voltage power breaker, of accommodating areas for flow elements (30).

30 9. The switching gas damper as claimed in one of the preceding claims, characterized in that the bearing element (16) has, on its side facing the arc-quenching chamber, at least one groove-like depression (38) which preferably passes peripherally around the inlet
35 openings (24) for the switching gases.

10. The switching gas damper as claimed in one of the preceding claims,

characterized in that the housing (10) accommodating the low-voltage power breaker is in the form of a withdrawable part rack for the purpose of arranging the low-voltage power breaker in a switchgear cell of a switchgear cabinet or of a switchgear assembly such that it can be displaced.

11. The switching gas damper as claimed in claim 10, characterized in that the bearing element (16) is fixed to side walls (3, 4) of the withdrawable part rack.